Weatherby®

MARK V MAGNUM RIFLE

OWNER'S OPERATING MANUAL

INTRODUCTION

You are now the proud owner of the legendary Mark V Magnum Rifle. You have realized that this Weatherby is not a purchase but an **investment**. An investment in value, pride of ownership, reliability, safety and an investment in the success of all your future hunts–for a lifetime.

To insure that this Mark V will remain one of your most cherished possessions, we ask that you read this manual thoroughly including all safety precautions.

SAFETY PRECAUTIONS

Almost all firearms accidents happen because someone didn't observe basic safety precautions. The following safety rules are to protect you **and** your fellow shooter.

WARNING: Use only the cartridge inscribed on the barrel. The use of any other cartridge could result in serious personal injury to you or damage to your firearm.

The Mark V rifle calibers (with the exception of the .22/250 and .30-06) are chambered only for Weatherby brand magnum (Weatherby Magnum, W.M.) ammunition.

Do not use any other brand of magnum ammunition even though the bullet caliber may be the same. Using the wrong ammunition can cause damage to your gun and could cause serious injury to you.

CAUTION

NEVER **attempt to repair, alter, or modify your firearm. Repairs should be performed by an expert gunsmith or, preferably, the Weatherby factory or authorized warranty service center. Alterations or modifications could affect factory-built safety features and could possibly cause injury to your or damage to your gun.**

NEVER turn the safety to "off" until you are ready to fire. Check your safety frequently during field travels. The chance for accidental discharge increases when the safety is "off."

NEVER load or chamber a round until you are sure the barrel is free of obstruction.

NEVER transport a loaded gun. Movement increases danger of accidental discharge.

NEVER leave a loaded gun unattended. Someone else could pick it up thinking it was unloaded.

NEVER climb a fence or obstruction while carrying your firearm. Open bolt and either hand it to a friend or set it down flat on the other side of the obstruction *before* climbing. Your climbing movements could accidentally cause a discharge.

NEVER fire in the direction of a sound. It could be livestock or, even worse, another hunter. Be sure of your target before firing.

ALWAYS follow hand-loading data *to the letter*. Experimentation can be dangerous. Although Weatherby sells empty cartridge cases for reloading purposes it assumes no liability in the use of hand-loaded ammunition in its firearms. Handloading is subject to human error over which Weatherby has no control.

SPECIFICATIONS

Receiver:

We believe the Weatherby Mark V features the **safest, strongest** bolt action receiver ever designed. Nine* precision locking lugs plus completely supported bolt head and three gas ports combine to accomplish this. Each receiver is specially heat-treated to insure uniformity, then tested at pressures far in excess of normal. The receiver is fitted with a highly refined trigger for uniform crisp let off. All locking lugs, bolts, and moving parts have passed rigorous inspection to assure you of continuing quality. Finally after inspection, the receiver is polished to a high luster and immersed for an hour in a special bluing solution, producing the most durable blue-black finish found on any piece of steel the world over.

Barrel:

The Weatherby barrel on your rifle is 24 or 26 inches in length, depending on model and caliber. All barrels have six grooves. The .22-250 and .224 calibers have a 14" twist. The .240a 9," .257, .270, .300, 7mm, .30-06. and .340 calibers have a 10" twist. The .378 has a 12" twist and the .460 has a 16" twist. The rifling is produced by the revolutionary hammer-forged method, a Weatherby first. This swaging process gives the special high chrome content allow steel barrel the smoothest, hardest bore ever developed, thus assuring longer bore life with greatest accuracy.

Stock:

The distinctively shaped stocks on the Weatherby Mark V rifles have become the "new standard" in styling the world over. Each is made of the finest woods available and finished by a new treating and coating process giving you more rugged durability than any other finish known. Every Weatherby Mark V is painstakingly hand-bedded to assure you precision accuracy, is equipped with a Weatherby recoil pad, rosewood pistol grip

*Mark V .224 and .22/250 Varmintmasters have 6 locking lugs.

cap with traditional Weatherby white diamond inlay, rosewood 45° forend tip with white spacers, and is hand-checkered by skilled artisans.

DIRECTIONS FOR OPERATING

To assemble bolt to receiver:

The bolt of your Weatherby Mark V rifle is packed separately in the shipping carton. Fit forward end of bolt into the receiver, pull trigger back as far as possible, and slide bolt partially forward in receiver and release trigger. Then, rotate bolt right or left until bolt stop engages the groove on the under side of the bolt, and complete insertion and locking of bolt in receiver.

Loading:

(**Important**, before loading your rifle, always be sure there are no obstructions in the barrel such as grease, dirt, patches, etc.) With the bolt open, lay cartridge on magazine follower, and press into magazine until held by side walls. The magazine of your Weatherby Mark V will hold three* Weatherby magnum cartridges. An extra cartridge may then be loaded directly into the chamber by holding down the top cartridge in the magazine and closing the bolt on the chambered cartridge.

Figure 1

*Magazine in .224 Varmintmaster and .30-06 Mark V holds 4 cartridges.
.240 caliber holds 5 cartridges in the magazine.
.378 and .460 calibers hold 2 cartridges in the magazine.

Safety:

The safety, which is located on the right side of the bolt sleeve, cannot be operated unless the firing pin is cocked. To engage, move safety as far back as it will go covering red dot. This disengages the sear from the trigger and locks the bolt handle in the closed position. Make sure that the safety is all the way to the rear.

To fire:

Push safety forward exposing red dot, and pull trigger to fire (fig. 1).

To unload:

To remove live cartridge from the chamber, open bolt and pull bolt rearward slowly until the cartridge can be grasped with the fingers before it clears the receiver. To remove cartridges from the magazine, open hinged floor plate by depressing the button in front of trigger-guard and cartridges will drop out.

DISASSEMBLY OF BOLT

No special tools are needed in order to field strip the Weatherby Mark V.

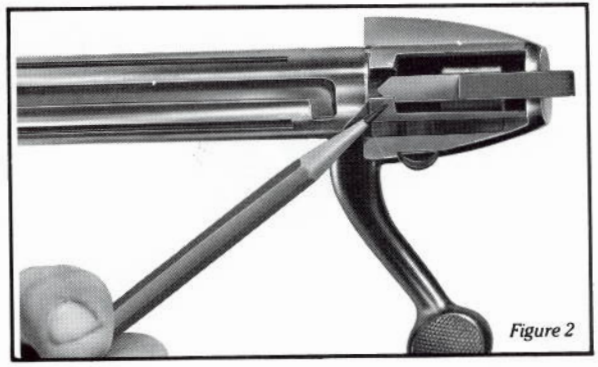

Figure 2

To remove bolt:

Unload chamber and magazine of all ammunition. With bolt open and drawn rearward, pull trigger back as far as possible and remove bolt from receiver.

To field strip bolt:

With the use of any square faced object, preferably hardwood, push cocking piece rearward approximately ⅛" and rotate cocking piece into its engaging shoulder in the bolt sleeve (fig. 2). Hold bolt sleeve in horizontal position and unscrew bolt. After one or two turns of the bolt, remove firing pin retaining ball through the opening in the bolt. If ball sticks, tap bolt gently (fig. 3). With firing pin assembly now removed from the bolt, replace cocking piece from its engaging shoulder in order to decompress firing pin spring. Unscrew firing pin completely from cocking piece. Field stripping is now complete. (Further disassembly is not recommended and should be performed only by your gunsmith or by Weatherby's own factory-trained gunsmiths). Assembly is done in reverse order.

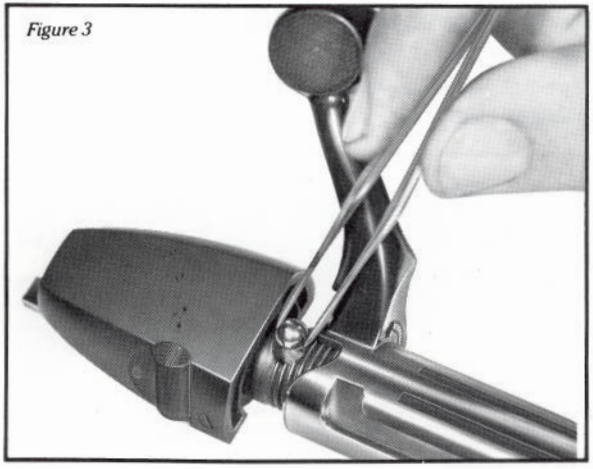

Figure 3

Note: In assembly, make sure that the threaded (back-end) portion of the firing pin is screwed-in flush with the rear surface of the cocking piece. If the flat on the firing pin (visible through hole in bolt sleeve) does not appear to be in alignment, unscrew the firing pin until alignment is correct. This method of re-assembly insures proper firing pin travel and protrusion.

TRIGGER PULL ADJUSTMENT FOR THE MARK V

A. Creep

The allen screw at the top of the trigger housing adjusts the sear engagement and creep, and is accessible through the opening in the top of the receiver rear tang. Moving the screw clockwise decreases the creep adjustment. Depress the sear downward while moving the adjusting screw clockwise until the sear releases. Then turn the adjusting screw ¼ turn counter-clockwise.

B. Trigger Pull

The allen screw in the bottom of the trigger housing adjusts the desire poundage of pull. It is accessible through the opening in the trigger guard just forward of the trigger. Rotating this screw clockwise increases the poundage and counter-clockwise adjustment will produce a lighter pull. It is recommended that the trigger unit not be adjusted below 3 pounds.

After you have adjusted the trigger to the desired pull, engage the safety and pull the trigger back all the way and release it slowly to check that it returns to the full forward position. If the trigger does not return to the forward position there is a strong indication that you have adjusted the trigger pull too lightly.

SUGGESTIONS FOR GETTING TOP PERFORMANCE FROM YOUR WEATHERBY MARK V

1. Your Weatherby Mark V is guaranteed to be accurate with Weatherby factory ammunition. This guarantee is supported by test firing each rifle at the factory. Ammunition used is the

same high quality Weatherby ammunition available at your Weatherby dealer. Each Weatherby rifle must shoot a 3-shot group at 100 yards measuring 1½" or less before leaving our factory. This group is shot from a cold barrel simulating actual field conditions. Remember, for best results always use Weatherby factory loaded ammunition.

2. Make sure that both trigger guard screws are tight before firing your rifle. Always tighten the front guard screw first and the rear screw last. Loose trigger guard screws not only contribute to inaccuracy but can also cause stock damage. **Check these screws periodically** as recoil and changes in atmospheric conditions can cause them to work loose.

3. Be sure your scope is secure. Loose mount screws are a definite source of inaccuracy. If your scope was mounted at our factory, you may be sure the mounting screws will "stay put" as they were treated with a special thread sealer that resists recoil vibrations.

4. If there should ever occur a noticeable change in point of impact or opening of groups, and you have checked all the above sources of inaccuracy, it is possible that there has been a slight dimension change in the stock due to atmospheric variations. (This can happen to any wood stock no matter how well sealed). The remedy is usually minor rebedding of the barrel. Consult the factory before returning the rifle.

Sighting in tips:

When hunting, the important first two or three shots are fired from a "cold" barrel. . . therefore, always sight in your Weatherby from a cold barrel. Remember that Weatherby rifles are lightweight hunting rifles, and though they possess target accuracy, do not expect small tight groups if the barrel is overheated. Firing 10 or 20 rounds in rapid succession **will** overheat the barrel and may cause change of impact. When hunting in the field, it is the first three or four shots that count, and these are always fired from a cold barrel. If it has been some time since your rifle has been sighted, it is always a good idea before a hunting trip to take a few sighting shots to check zero.

Keep ammunition away from heat, as high temperature increases pressure which in turn affects point of impact.

If you anticipate a hunt in extremely cold weather, where temperatures sometimes reach 50 degrees below zero, you should send your bolt to our factory for winterizing. Any trace of lubricants will be removed and replaced with a special graphite.

INSTRUCTIONS FOR CARE AND CLEANING

Weatherby Magnum ammunition is completely noncorrosive and cannot harm your rifle's bore. However, moisture **can** form in the bore and this can cause rust if left unattended.

It is just good sense and a simple precaution after firing to run a patch soaked with a powder solvent through the bore, then a dry patch followed by a lightly oiled patch. Heavy greases should be used only if the rifle is to be stored for a long period and, of course, should always be removed before firing. In cleaning the bore, it is highly advisable to remove bolt and insert rod from breech. (Be sure rifle is unloaded before starting cleaning).

The action and all metal parts should be cleaned off after exposure to rain or dampness and even after being handled. (Perspiration can be very corrosive). Wipe off parts, such as bolt, receiver and magazine parts with a slightly oily cloth. To insure smooth bolt movement, give exterior of bolt a thin coat of light oil. To restore gloss to external metal and wood, polish with silicone cloth.

To protect bore while hunting in rain or dust, cover the muzzle with Scotch tape. Rifle may be fired without removing tape. Tape should always be removed from the rifle after the hunt. Never plug muzzle with any obstruction during storage.

CAUTION

Do not use a fixed or immovable bench type of rest when shooting this rifle. Portions of the stock, including the rear of the pistol grip, may directly contact the rest. On firing, recoil can drive the rifle back into the rest with great force, transmitting recoil energy to all points of contact. Irrepairable damage to the pistol grip and/or stock may result. Such damage is not covered under warranty.